

From karn@qualcomm.com Fri May 19 21:09:13 1995
Received: from servo.qualcomm.com (servo.qualcomm.com [129.46.128.14]) by
dingus.n5lyt.datarace.com (8.6.10/8.6.9) with ESMTP id VAA11262 for
<hfsig@tapr.org>; Fri, 19 May 1995 21:09:10 -0500
Received: (karn@localhost) by servo.qualcomm.com (8.6.12/QC-BSD-2.5) id TAA24644;
Fri, 19 May 1995 19:09:07 -0700
Date: Fri, 19 May 1995 19:09:07 -0700
From: Phil Karn <karn@qualcomm.com>
Message-Id: <199505200209.TAA24644@servo.qualcomm.com>
To: tcp-group@ucsd.edu, hfsig@tapr.org
Cc: hams@qualcomm.com
Subject: coding demo on WWW

I have added a page to my WWW collection that I believe vividly demonstrates the potential of forward error correction (FEC) coding in power-limited amateur radio communications.

The page contains links to several synthesized audio files I've created that contain simulated noise-corrupted CW and BPSK signals at various signal-to-noise ratios. The BPSK signals further represent S/N ratios with and without FEC. Some of the coded BPSK signals are completely buried in the noise to the human ear, yet they could still be recovered with a good PSK modem and sequential decoder.

The page is <http://www.qualcomm.com/people/pkarn/fecdemo/index.html>.

You'll need a computer capable of playing 64kb/s mu-law PCM audio files.

--Phil